FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number RA9-99-0110/4269-83

Serial No. 09/430,501

LIST OF DOCUMENTS CITED BY APPLIA

(Use several sheets if necessary)

Applicant: Hwang, et al.

Filing Date: October 29, 1999

Group 2731

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
Ph	1	5,835,538	11/10/98	Townshend	375	295	
$\Lambda$	2	5,831,561	11/3/98	Cai et al.	341	106	
	3	5,809,075	9/15/98	Townshend	375	254	
1	4	5,801,695	9/1/98	Townshend	375	340	
1	5	5,793,809	8/11/98	Holmquist	375	242	
	6	5,784,405	7/21/98	Betts et al.	375	222	
1	7	5,778,024	7/7/98	McDonough	375	216	
	8	5,768,311	6/16/98	Betts et al.	375	222	
	9	5,761,247	6/2/98	Betts et al.	375	316	
	10	5,757,849	5/26/98	Gelblum et al.	375	222	
<b>\</b>	11	5,754,594	5/19/98	Betts et al.	375	285	
	12	5,729,226	3/17/98	Betts et al.	341	94	
1	13	5,598,401	1/28/97	Blackwell et al.	379	94	
	14	5,546,395	8/13/96	Sharma et al.	370	84	
	15	5,534,913	7/9/96	Majeti et al.	348	7	
	16	5,528,679	6/18/96	Taarud	379	34	
	17	5,528,625	6/18/96	Ayanoglu et al.	375	222	
	18	5,406,583	4/11/95	Dagdeviren	375	5	
	19	5,394,437	2/28/95	Ayanoglu et al.	375	222	
	20	5,394,110	2/28/95	Mizoguchi	329	304	
ļ	21	5,291,479	3/1/94	Vaziri et al.	370	58.2	
l	22	5,253,291	10/12/93	Naseer et al.	. 379	406	
- 1	23	5,210,755	5/11/93	Nagler et al.	370	108	
- 1	24	5,157,690	10/20/92	Buttle	375	14	
1	25	5,134,611	7/28/92	Steinka et al.	370	79	
- 1	26	5,119,403	6/2/92	Krishnan	375	39	
1	27	5,119,401	6/2/92	Tsujimoto	375	14	
j ,	28	5,067,125	11/19/91	Tsuchida	370	79	
	29	5,052,000	9/24/91	Wang et al.	371	43	
	30	5,040,190	8/13/91	Smith et al.	375	4	
1	31	5,033,062	7/16/91	Morrow et al.	375	7	
1	32	5,014,299	5/7/91	Klupt et al.	379	98	
1	33	4,995,030	2/19/91	Helf	370	32.1	
	34	4,985,902	1/15/91	Gurcan	375	14	
	35	4,972,360	11/20/90	Cuckier et al.	364	724.04	
	36	4,901,333	2/13/90	Hodgkiss	375	98	
	37	4,890,303	12/26/89	Bader	375	107	
Sp	38	4,884,285	11/28/89	Heynen et al.	375	25	•
	39 40	4,868,863 4,797,898	9/19/89 1/10/89	Hartley et al. Martinez	379 375	98	

EXAMINER \*EXAMINER Pombas Munu

DATE CONSIDERED

6/2002

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office				е	Attorney Doci RA9-99-011			Serial No. 09/430,501
LIST OF DO	OCUMEN	NTS CITED BY	APPLICANT	E	Applicant: H	wang, et al.		<u> </u>
Use several	sheets if	necessary)		8				
			JAN 0 3	2000	Filing Date :			Group
			The room	AFIT OF	October 29, 1	999		2731
():	41	4,760,598	7/26/88	Ferrell		380	44	
Ph	42	4,720,861	1/19/88	Bertrand	-	381	36	
$\wedge$	43	4,578,796	3/25/86	Charalambous et	al	375	8	
	44	4,577,310	3/18/86	Korsky et al.	u	370	58	
	45	4,450,556	5/22/84	Boleda et al.		370	58	
}	46	4,434,322	2/28/84	Ferrell		178	22.13	
į.	47	4,270,027	5/26/81	Agrawal et al.		179	81R	
	48	4,237,552	12/2/80	Aikoh et al.		370	83	
	49	4,132,242	1/2/79	Carroll, Jr.		137	263	
1	50	4,112,427	9/5/78	Hofer et al.		340	347	1
1	51	3,729,717	4/24/73	de Koe et al.		340	172.5	
	52	3,683,120	8/8/72	Schenkel		179	172.3 15A	
1	53	3,557,308	1/19/71	Alexander et al.		179	69.5	
1	54	5,918,204	6/29/99	Tsurumaru	1	704	214	
1	55	5,914,982	6/22/99	Bjarnason et al.		375	222	
1	56	5,911,115	6/8/99	Nair et al.	}	455	63	
1	57	5,887,027	3/23/99	Cohen et al.		375	222	
l	58	5,881,102	3/9/99	Samson		375	222	
1	59	5,881,066	3/9/99	Lepitre		373	20.5	
(	60	5,872,817	2/16/99	Wei		375	341	
1	61	5,870,429	2/9/9	Moran, III et al.		375	222	
į	62	5,862,184	1/19/99	Goldstein et al.		375	295	
	63	5,862,179	1/19/99	Goldstein et al.		375 375	242	
1	64	5,862,141	1/19/99	Trotter		373	468	
İ	65	5,850,421	12/15/98	Misra et al.		370 375	354	
	66	5,850,388	12/15/98	Anderson et al.		373	252	
	67	5,844,940	12/1/98	Goodson et al.		375	222	
	68	5,838,724	11/17/98	Cole et al.		375 375	222	
}	69	5,835,532	11/10/98	Strolle et al.		375 375	233	
	70	5,825,823	10/20/98	Goldstein et al.		375 375	286	,
	71	5,825,816	10/20/98	Cole et al.		375 375	222	[
.	72	5,823,810	10/20/98	Goldstein et al.		375 375	242	1
	73	5,822,371	9/29/98	Glass	j	375 375	326	1
	74	5,813,534	9/29/98	Betts et al.		373 370	286	
	75	5,812,537	9/22/98	Bingel et al.		370 379	28	[
	76	5,784,415	7/21/98	Chevillat et al.		379 375	341	
	77	5,757,865		Kaku et al.		375 375	341	
	78	5,734,663	5/26/98 3/31/98	Eggenberger		373 371	39.1	1
1	79	5,726,765	3/31/98	Yoshida et al.	1	358	412	1
l	80	5,724,393	3/3/98	Dagdeviren		375	296	
	81	5,710,792	1/20/98	Fukawa et al.		375 375	296	ŀ
	82			Ohki et al.			229	1
		5,694,420	12/2/97			375 375		
	83	5,671,250	9/23/97	Bremer et al.		375 375	222	
	84	5,646,958	7/8/97	Tsujimoto		375	233	
1	85	5,634,022	5/27/97	Crouse et al.		395	704	
	86	5,625,643	4/29/97	Kaku et al.		375	222	1

EXAMINER \*EXAMINER

Ŕ

Pombay Kurray

DATE CONSIDERED

6/2002

FORM PTO-1449 U.S. Department of Commerce Attorney Docket Number Serial No. RA9-99-0110/4269-83 Patent and Trademark Office 09/430,501 LIST OF DOCUMENTS CITED BY APPLICANT. Applicant: Hwang, et al. NIL 0 3 2000 (Use several sheets if necessary) TRADEV Filing Date: Group October 29, 1999 2731 87 5,566,211 10/15/96 Choi 375 332 Ph 88 5,563,908 10/8/96 Kaku et al. 375 222 89 7/2/96 Dolan 375 222 5,533,048 90 5/21/96 Chauffour et al. 370 5,519,703 84 91 5,513,216 4/30/96 Gadot et al. 375 233 92 5,475,711 12/12/95 Betts et al. 375 240 93 5,434,884 7/18/95 Rushing et al. 375 235 94 5,432,794 7/11/95 Yaguchi 371 5.5 95 379 5,418,842 5/23/95 Cooper 98 96 5,402,445 3/28/95 Matsuura 375 229 97 5,398,303 3/14/95 Tanaka 395 51 98 1/31/95 **England** 375 121 5,386,438 99 5,351,134 9/27/94 Yaguchi et al. 358 435 100 5,285,474 2/8/94 Chow et al. 375 13 101 5,265,151 11/23/93 Goldstein 379 97 102 5,253,272 10/12/93 Jaeger et al. 375 60 103 5,225,997 7/6/93 Lederer et al. 364 550 104 5,142,552 8/25/92 Tzeng et al. 375 14 105 5/5/92 Chen et al. 375 5,111,481 14 106 5,107,520 4/21/92 Karam et al. 375 60 107 11/21/91 Yoshida et al. 375 98 5,065,410 370 108 5,007,047 4/9/91 Sridhar et al. 32.1 109 4/2/91 Nakajima et al. 364 565 5,005,144 110 4,991,169 2/5/91 Davis et al. 370 77 8/28/90 McGlynn et al. 380 111 4,953,210 48 112 4,943,980 7/24/90 Dobson et al. 375 42 113 4,894,847 1/16/90 Tjahjadi et al. 375 121 114 4,890,316 12/26/89 Walsh et al. 379 98 379 98 115 4,833,706 5/23/89 **Hughes-Hartogs** 4,756,007 116 Qureshi et al. 375 37 7/5/88 117 4,731,816 3/15/88 Hughes-Hartogs 379 98 6/17/80 Martinez 375 7 118 4,208,630 119 3,622,877 11/23/71 MacDavid et al. 324 73 R 120 5,839,053 11/17/98 Bosch et al. 455 13.1 121 5,068,875 11/26/91 Quintin 375 78 10/15/91 375 39 122 5,058,134 Chevillat et al. 123 5,038,365 8/6/91 Belloc et al. 375 8 10/30/90 124 4,967,413 Otani 371 37.4 125 5,311,578 5/10/94 Bremer et al. 379 97 5,317,594 126 5/31/94 Goldstein 375 8 222 127 5,926,506 7/20/99 Berthold et al. 375 128 2/13/96 Davis et al. 375 222 5,491,720 129 5,353,280 10/4/94 Ungerböck 370 32.1

EXAMINER \*EXAMINER Jambaj Muman

5,852,631

5,732,104

5,796,808

12/22/98

3/24/98

8/18/98

Scott

Brown et al.

Scott et al.

130

131

132

DATE CONSIDERED



222

222

93.31

375

375

379

FORM PT		U.S. Department on and Trademark			Attorney Docket Number RA9-99-0110/4269-83			Serial No. 09/430,501
LIST OF D	LIST OF DOCUMENTS CITED BY APPLICANT Applicant: Hwang, et al.							<u>.                                    </u>
(Use severa	l sheets if	necessary)	( MIL 0	3 2000 μ				
			SUL TRI		Filing Date: October 29,	1999		Group 2731
n o	133	5,751,796	5/12/98	Scott et al.		379	93.31	
Ph	133	5,187,732	2/16/93	Suzuki	i	379	5	
$\wedge$	135	5,640,387	6/17/97	Takahashi et	a1	370	359	
1	136	5,751,717	5/12/98	Babu et al.	*1.	370	466	
Į	137	5,784,377	7/21/98	Baydar et al.		370	463	
1	138	5,887,027	3/23/99	Cohen et al.		375	222	
	139	5,850,388	12/15/98	Anderson et a	1	370	252	
	140	5,914,982	6/22/99	Bjarnason et a		375	222	
}	141	5,726,765	3/10/98	Yoshida et al.		358	412	
	142	5,850,421	12/15/98	Misra et al.		375	354	
	143	5,729,226	3/17/98	Betts et al.		341	94	
ł	144	5,862,184	1/19/99	Goldstein et a	1	375	295	
ŀ	145	5,911,115	6/8/99	Nair et al.		455	63	
	146	5,838,724	11/17/98	Cole et al.		375	222	
	147	5,784,415	7/21/98	Chevillat et a		375	341	
ı	148	5,844,940	12/1/98	Goodson et al		375	222	
ľ	149	5,386,438	1/31/95	England	•	375	121	
l l	150	5,881,102	3/9/99	Samson		375	222	
	151	5,285,474	2/8/94	Chow et al.		375	13	
	152	5,513,216	4/30/96	Gadot et al.		375	233	
	153	5,835,532	11/10/98	Strolle et al.		375	233	
	154	5,418,842	5/23/95	Cooper		379	98	
			FOREI	GN PATENT I	OCUMENTS			
		Document						Translation
	ı	Number	Date	Coi	intry	Class	Subclass	Yes   No
Ph	155	WO 98/37657	8/27/98		CT	H04L		200   110
1	156	WO 96/18261	6/13/96	F	CT	H04M	11/00	i
l l	157	0 669 740 A2	12/14/94	1	rope	H04L	27/00	İ
	158	0 659 007 A2	11/8/94		rope	H04M	11/06	
ł	159	0 473 116 A2	8/27/91	Eu	rope	H04N	1/00	
	160_	2-345-019	3/49/76	Fre	ince	H04L	27/10-	ده السمنانسد دان بدود بر و. 
		OTHER DOCU	JMENTS (In	cluding Author	, Title, Date; Per	tinent Pages,	Etc.)	
<	161							nce, <u>IEEE</u>
	1.60				No/6, pp. 998-1			7104
The second secon		Fischer, Signal pgs. (September			V-pcm Rapport	eur Meeting,	Sunriver, Ore	egon, USA, , 3
Gardner Interpolation in Digital Modems - Part I: Fundamentals, IEEE Transactions on Communications, Vol. 41, No. 3, pp. 501-507 (March 1993)								
	164				EEE Communic		zine, pp. 64-6	8 (December
····	11/	1996)	-					-
	165	Kalet et al., The			d-Channels, <u>IEE</u> Switzerland. M			e on
	L -01:00				ynchronous Date			ions on
A	<b>★</b>  -1166 <b>*</b>	I Muchici et al 1	mine necov	ci y ili Digital D	ynchi onoas Dan		<u> </u>	10113 011

EXAMINER \*EXAMINER

Powlay Kummen

DATE CONSIDERED

6/2002

FORM PTO-		U.S. Department of Commerce of and Trademark Office	Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/430,501	
		ITS CITED BY APPLICANT	Applicant: Hwang, et al.		
(Use several s	heets if	necessary) [		- F	
			Filing Date :	Group	
		MADEMANAGE	October 29, 1999	2731	
	167	Okubo et al., Building Block Design of Larg Digital Interface to Digital Exchange, Japan		em and Direct	
. =	168	Pahlavan et al., Nonlinear Quantization and IEEE Transactions on Communications, Vo	d the Design of Coded and Uncoded Sign		
1	169	Proakis, Digital Signaling Over a Channel pgs. 373, 381 (McGraw-Hill Book Compan	with Intersymbol Interference, Digital Co		
7	170	Williams et al., Counteracting the Quantisa		atories, pp. 24-29	
<del>\                                    </del>	171	(UK) A Digital Modem and Analogue Modem Pa	ir for Use on the Public Switched Telenh	one Network	
$\mathbf{Y}$		(PSTN) at Data Signalling Rates of Up to 5 V.90 (September 1998)			
	172	Series V: Data Communication Over the Te	elephone Network; Interfaces and voicebo	ınd modems; A	
1		modem operating at data signalling rates o			
		telephone network and on leased point-to-p			
	173	Bell, R.A., et al., Automatic Speed Reduction		<u>rechnical</u>	
	174	Disclosure Bulletin, Vol. 32, No. 1, pp. 154 Abbiate, J.C., et al., Variable-Data Transm.		Bulletin Vol 17	
~	1/4	No. 11, pp. 3301-3302 (April 1975)	ission wodem, ibivi Technical Disclosure	Buncin, Vol. 17,	
1,0	175	Data Communication Over the Telephone N	Network: Procedures for Starting Session	s of Data	
/		Transmission Over the General Switched Telephone Network, 1TU-T V.8 (09/94)			
	176	Line Quality Monitoring Method, IBM Tech (January 1976)	hnical Disclosure Bulletin, Vol. 18, No. 8	s, pp. 2726-2726	
	177	Loopback Tests for V.54 Data Communicat 32, No. 3A, pp. 295-299 (August 1989)	ion Equipment, IBM Technical Disclosur	e Bulletin, Vol.	
(	178	On-Line Real Time Modem Testing, IBM T (November 1977)	echnical Disclosure Bulletin, Vol. 20, No	<b>6</b> , pp. 2252-2254	
1	179	Pierobon, Gianfranco L., Codes of Zero Spe		ransactions on	
1 1	100	Information Theory, Vol. IT-30, No. 2, pp.		- C L - I	
7)	180	Marcus, Brian H, et al., On Codes with Spec Frequency, IEEE Transactions on Informat			
The same of the sa	181	Fischer, Robert, et al., Signal Magping for A Sector PCM '97-120, V.pcm Rapporteur M			
	182	Pulse Code Modulation (PCM) of Voice Fr	1		
11	183	Series G: Digital Transmission Systems; Te code modulation; Pulse code modulation (I (Geneva, 1996)			
	184	Data Communication Over the Telephone N Asynchronous-to-Synchronous Conversion,		r DCEs Using	
	185	Improvement to Spectral Shaping Technique 1551 (November 1998)		111, pp. 1550-	
	186	TIA Standard Dräft: North American Telep Client to Digitally Connected Server Model PN3857,Draft 10 (February 1999)			
	187	Davis, Gordon T., DSP and MATLAB imple (September 18, 1998)	ementation of model-based constellation	generation	
1	188	Woodruff, K.R, et al, Automatic and Adapt Communication Line Environments, IBM T (February 1982)	•	•	

FORM PTO-		U.S. Department of Commerce nt and Trademark Office	Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/430,501			
		ITS CITED BY APPLICANT PERSON	Applicant: Hwang, et al.				
(Use several sheets if necessary)							
			Filing Date : October 29, 1999	Group 2731			
		MADEMAN					
	189	Godard, D., et al., Decision Feedback Equa Disclosure Bulletin, Vol. 24, No. 11A, pp. 3	5691-5692 (April 1982)				
0	190	Borgnis-Desbordes, P., et al., Variable-Spec Vol. 27, No. 4A, pp. 2269-2270 (Septembe	r 1984)				
( V )	191	Couland, G., et al., Analog Wrap Self-Test is Disclosure Bulletin, Vol. 28, No. 6, pg. 245	7 (November 1985)	<b>.</b>			
	192	Maddens, F., Sixteen-State Forward Convo 28, No. 6, pp. 2466-2468 (November 1985)	/				
~	193	Remote Modem-Type Self-Learning, IBM T 2399 (November 1985)					
Ú,	194	Maddens, F., Sixteen-State Feedback Convo Vol.28, No. 10, pp. 4212-4213 (March 198		sure Bulletin,			
	195	Bell, R. A., et al., Automatic Speed Reduction Disclosure Bulletin, Vol. 32, No. 1, pp. 154	on and Switched Network Bắck-up, <u>IBM T</u>	<u>[echnical</u>			
	196	Nobakht, R.A., Trellis-Coded Modulation Coding Scheme for a 19/2 Kbps Modem, IBM Technica Disclosure Bulletin, Vol. 36, No. 11, pp. 167-170 (November 1993)					
	197	Nobakht, R.A., Unified Table Based Subset Decoder for the Viterbi Algorithm, IBM Technical Disclosure Bulletin, Vol. 37, No. 09, pp. 581-587 (September 1994)					
(4)	198	Nobakht, R.A., Trellis Subset Decoder Algorithm Based on a Pattern Recognition Scheme, IBM Technical Disclosure Bulletin, Vol. 37, No. 10, pp. 693-697 (October 1994)					
	199	Abbiate, J.C., et al, Variable-Data Transmi. No. 11, pp. 3301-3302 (April 1975)		Bulletin, Vol. 17,			
	200		Barlet, J., et al., Full Speed Recovery in High Speed Modems, IBM Technical Disclosure Bulletin, Vol				
17	201	Dialog Abstract, Sample rate converter for	duplex modem, European Patent No. 2854	113			
	202	Dialog Abstract, Two-speed full-duplex mod	dem for telephone network, PCT No. WO	8501407			
	203	Dialog Abstract, Digital data transmission	sýstem, European Patent No. 124674				
	204	Dialog Abstract, Facsimile communication 1992)	· •				
	205	Dialog Abstract, Picture communication equipment, Japanese Publication No. 03-120954 (May 23, 1991)					
	206	Dialog Abstract, Radio date transmission sy					
	207	Dialog Abstract, Facsimile deviçe, Japanese					
1	208	Dialog Abstract, Data repeater, Japanese P					
_	209	Dialog Abstract, Blinding training method j feedback filters, European, Patent No. 8802		d-forward and			
(	210	Dialog Abstract, Processing method for dis No. 465851		ropean Patent			
	211	Dialog Abstract, Estáblishing wireless com	munication channel, PCT No. WO 990582	20			
	212	Dialog Abstract, High-speed rate adaptive					
	213	Dialog Abstract Digital modem in digital n					
	214	Dialog Abstract, Communication equipment No. 08-340289 (December 24, 1996)					
	215	Dialog Abstract, Data recording method, Ja	apanese Publication No. 05-089597 (April	9, 1993)			
	216	Dialog Abstract, Transmission control syste					
	Japanese Publication No. 02-228853 (September 11, 1990)						

FORM PTO-		U.S. Department of Commerce and Trademark Office	Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/430,501			
		ITS CITED BY APPLICATED TO THE SECOND	Applicant: Hwang, et al.				
(Use several si	heets if	necessary) GR 0 3 2110 mg	Filing Date: October 29, 1999	Group 2731			
	217	Naguib, A.F., et al., Dialog Abstract, A space	ce-time coding modem for high-data-ra	nté wireless			
		communications, IEEE Journal of Selected (October 1998)					
$\bigcirc$	218	Denno, S., et al., Dialog Abstract, Mbit/s bu radio communications, IEICE Transactions					
W	219	Naguib, A.F., et al., Dialog Abstract, A space communications, GLOBECOM 97, IEEE G	Naguib, A.F., et al., Dialog Abstract, A space-time coding modem for high-data-rate wireless communications, GLOBECOM 97, IEEE Global Telecommunications Conference, Vol. 1, pp. 102-9				
X	220	(1997)  Kobayashi, K., et al., Dialog Abstract, Fully digital burst modem for satellite multimedia communication systems, IEICE Transactions on Communications, vol. E80-B, No. 1, pp. 8-15					
- 7	221	(January 1997)  Skellern, D.J., et al., Dialog Abstract, <i>A high speed wireless LAN</i> , <u>IEEE Micro</u> , <b>Vol 17</b> , <b>No. 1</b> , pp. 40-47 (January-February 1997)					
	222	Enomoto, K., et al., Dialog Abstract, A mode switching type burst demodulator AFC, Transactions of the Institute of Electronics, Information and Communication Engineers, Vol. J76B-II, No. 5, pp. 415-					
	223	21 (May 1993)  Betts, W., Dialog Abstract, Nonlinear encoding by surface projection, International Conference on					
	22.4	<u>Data Transmission – Advances in Modem and ISDN Technology and Applications</u> (September 23-25, 1992)					
	224	Schilling, D.L., et al., Dialog Abstract, <i>The FAVR meteor burst communication experiment</i> , Military Communications in a Changing World MILCOM '91 (November 4-7, 1991)					
$\sim$	225	Jacobsmeyer, J.M., Dialog Abstract, Adaptive trellis-coded modulation for bandlimited meteor burst channels, IEEE Journal on Selected Areas in Communications, Vol. 10, No. 3, pp. 550-61 (April 1992)					
11	226	Sato, T., et al., Dialog Abstract, Protocol co					
		scheme over analog cellular networks, <u>IEE</u> pp. 69-76 (February 1992)	E Transactions on Vehicular Technolog	gy, Vol. 41, No. 1,			
	227	Lee, LN., et al., Dialog Abstract, Digital signal processor-based programmable BPSK/QPSK/offset-QPSK modems, COMSAT Technical Review, pp. 195-234 (Fall 1989)					
	228	Sato, T., et al., Dialog Abstract, Error-free No. 133, pp. 20-26 (April 1989)	high-speed data modem, Oki Technica	l Review, Vol. 56,			
( )	229	Seo, JS, et al., Dialog Abstract, Performance of convolutional coded SQAM in hardlimited satellite channels, IEEE International Conference on Communications BOSTONICC/89, Vol. 2, pp. 787-91 (June 11-14, 1989)					
T	230	Murakama, K., et al., Dialog Abstract, FEC combined burst-modem for business satellite communications use, IEEE/IECE Global Telecommunications Conference 1987, Vol. 1, pp. 274-80					
	231	(Japan, November ½5-18, 1987)  McVerry, F., Dialog Abstract, Performance of a fast carrier recovery scheme for burst-format DQPSK transmission over satellite channels, International Conference on Digital Processing of Signals in Communications, pp. 165-72 (United Kingdom, 1985)					
	232	Filter, J.H.J., Dialog Abstract, An algorithm test sets (modems), Transactions of the Soupp. 39-43 (January 1985)	n for detecting loss of synchronisation i				
	233	Gersho, A. Dialog Abstract, Reduced comp IEEE Journal on Selected Areas in Commu	nications, Vol. SAC-2, No. 5, pp. 778-	9 (September 1984)			
	234	Dialog Abstract, High-speed full-duplex mo 18, pg 77 (September 15, 1982)	odem reduces telephone connect time, <u>I</u>	EDN, Vol. 27, No.			
	•						

FORM PTO-		U.S. Department of Commerce and Trademark Office	Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/430,501			
	LIST OF DOCUMENTS CITED BY APPLICANT  Applicant: Hwang, et al.  (Use several sheets if necessary)						
(000 00 00 00 00 00 00 00 00 00 00 00 00		JUL & SALTH	Filing Date : October 29, 1999	Group 2731			
	235	Chadwick, H., et al., Dialog Abstract, <i>Perfosatellite channel</i> , Fifth International Conference March 23-26, 1981)					
W	236	Nussbaumer, H., Dialog Abstract, Reducing Technical Disclosure Bulletin, Vol. 18, No.		ualizer, <u>IBM</u>			
0	237	Uzunoglu, V., et al., Dialog Abstract, Synchronous and the coherent phase-locked synchronous oscillators: new techniques in synchronization and tracking, IEEE Transactions on Circuits and Systems, Vol. 36, No. 7, pp. 997-1004 (July 1989)					
0	238	Minei, I., et al., Dialog Abstract, High-speed satellite channels, IEEE Journal on Selected (February 1999)					
	239	Ovadia, S., Dialog Abstract, The effect of interleaver depth and QAM channel frequency offset on the performance of multichannel AM-VSB/256-QAM video lightwave fransmission systems, International Conference on Telecommunications: Bridging East and West Through Communications, Vol. 1, pp. 339-43 (Greece, June 21-25, 1998)					
Ú,	240	Johnson, R.W., et al., Dialog Abstract, Error correction coding for serial-tone HG transmission,  Seventh International Conference on HF Radio Systems and Techniques, pp. 80-84 (United Kingdom, July 7-10, 1997)					
	241	Karasawa, Y., et al., Dialog Abstract, Cycle slip in clock recovery on frequency-selective fading channels, IEEE Transactions on Communications, Vol. 45, No. 3, pp. 376-83 (Mach 1997)					
	242	Umehira, M., et al., Dialog Abstract, Design compensated filter, Transactions of the Institution Engineers, Vol. J78B-II, No. 12, pp. 735-40	and performance of burst carrier recoverate of Electronics, Information and Cou	very using a phase			
	243	De Bot, P., et al., Dialog Abstract, An examperoceedings of ICC '93 – IEEE International (Switzerland, May 23-26, 1993)	gle of a multi-resolution digital terrestri				
N	244	Lei, Chen, et al., Dialog Abstract, Single-ton '93 – IEEE Region 10 International Confere 3, pp. 94-98 (China, October 19-21, 1993)					
N	245	Woerner, B.D., et al., Dialog Abstract, Sim. Communications, Vol. 32, No. 7, pp. 42-53		s, <u>IEEE</u>			
1	246	Sato, T., et al., Dialog Abstract, Vehicle terr Review, Vol. 58, No. 144, pp. 49-52 (July 1	ninal equipment with dedicated DSP, <u>O</u> 992)				
	247	Sato, T., et al., Dialog Abstract, Protocol configuration and verification of an adaptive error control scheme over analog cellular networks, IEEE Transactions on Vehicular Technology, Vol. 41, No. 1, pp. 69-76 (February 1992)					
7	248	Tamm, Yu.A., Dialog Abstract, The effect of equalizer, Elektrosvyaz, Vol. 45, No. 3, pp.	5-10 (Mach 1990)				
	249	Saleh, A.A.M., et al., Dialog Abstract, An experimental TDMA indoor radio communications systemusing slow frequency hopping and coding, IEEE Transactions on Communications, Vol. 39, No. 1, pp. 152-62 (January, 1991)					
	250	Nergis, A., Dialog Abstract, Optimum HF digital communication systems with block coding and interleaving techniques, Proceedings of the 1990 Bilkent International Conference on New Trends in Communication, Control and Signal Processing, Vol. 1, pp. 511-17 (Turkey, July 2-5, 1990)					
	251	Kawamata, F., et al., Dialog Abstract, An ex- Communications Research Laboratory, Vol	valuation of voice codecs and facsimiles,				

FORM PTO-		U.S. Department of Commerce nt and Trademark Office	Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/430,501		
		ITS CITED BY APPLICANT	Applicant: Hwang, et al.			
(Use several sl	heets if	necessary)				
			Filing Date :	Group		
		THE PROPERTY OF THE PARTY OF TH	October 29, 1999	2731		
	252		list was distant	-ila		
	252	Sato, T., et al., Dialog Abstract, Error-free applicable to both wire and mobile radio ch				
$\overline{\lambda}$		<u>'Telecommunications Freedom – Technolog</u>				
( )	253	Dialog Abstract, 1200-bit/s cellular modem				
		70-72 (July 1987)				
( )	254	Chamberlin, J.W., et al., Dialog Abstract, D				
	255	Journal on Selected Areas in Communication  De Cristofaro, R., et al., Dialog Abstract, A				
	255	network, International Journal of Satellite C				
\ \ \ \ \		1985)	<u></u>	t 15 00 (surraury surre,		
	256	Shumate, A., Dialog Abstract, Error correc	tion coding for channels subject to occ	asional losses of bit		
{ }		count integrity, IEEE Military Communicat	ions Conference, Vol. 1, pp. 89-83 (Oc	ctober 21-24, 1984)		
				50171		
	257	Suyderhoud, H., et al., Dialog Abstract, Inv.				
		64 kb/s with and without link errors, Internation pp. 81-87 (January-March, 1984)	Hamai Journal of Saterific Communica	tions, vol. 2, No. 1,		
	258	Smith, C., Dialog Abstract, Relating the per	formance of speech processors to the l	bit error rate. Speech		
_ \	200	Technology, Vol. 2, No. 1, pp. 41-53 (Septe		<b>.</b>		
1	259	Suyderhoud, H., et al., Dialog Abstract, Inv.	estigation of 9.6½kbit/s data transmission			
		64 kbit/s with and without link errors, Sixth		<u>atellite</u>		
	260	Communications Proceedings, pp. 26-33 (September 19, 23, 1983)  Kittel, L., Dialog Abstract, Analogue and discrete channel models for signal transmission in mobile				
	260	radio, Frequenz, Vol. 36, Nos. 4-5, pp. 153		mission in mobile		
	261	Farrell, P.G., et al., Dialog Abstract, Soft-de		uission, IEE		
4	201	Proceedings F (Communications, Radar and				
*		1980)	· ·			
1	262	Johnson, A.L., Dialog Abstract, Simulation				
		overcoming ionospheric scintillation fading	r, AGARD Conference Proceedings No	o. 173 on Radio		
<u>I</u> B	263	Systems and the Ionosphere, pp. 3/1-5 (Gre Matsumura, K., et al., Dialog Abstract/Anti		HE radio aquinment		
	203	Mitsublishi Electric Engineer, No. 41, pp. 1		in radio equipment,		
	264	Blank, H.A., et al., Dialog Abstract, A Mark	kov error channel model, 1973 Nationa	<u></u>		
		Telecommunications Conference, Vol. 1, pp	p. 15B/1-8 (November 26-28, 1973)			
	265	McGruther, W.G., Dialog Abstract, Long te				
_ 0		nonswitched private line network, Summari		nn symposium on		
	266	communications, pp. 65-6 (Canada, Novem Burton, H.O., et al., Dialog Abstract, On the		mission on talanhana		
$  \sim  $	200	facilities to estimate performance of forwar				
		communications, p. 2/1 (June 8-10, 1970)	<u> </u>			
	267	Bowen, R.R., Dialog Abstract, Application				
		dispersive channels, Proceedings of the 197	0 international symposium on informa	tion theory, p. 1		
	260	(Netherlands, June 15-19, 1970)	tion of the second			
	268	Pierce, A.W., et al., Dialog Abstract, Effection multichannel h.f. data modems, IEEE Trans				
		4, pp. 281-94 (August 1970)	sactions on Communication Technolog	<u>,</u> , voi. Cuiii-10, 140.		
	269	West, R.L., Abstract, Data Concentration A	Method, IBM Technical Disclosure Bul	letin, pp. 487-489;		
100		http://w3.infogate.ibm.com:1207/SESS506				
_ ·		μ				

DATE CONSIDERED

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Attorney Docket Number RA9-99-0110/4269-83

Serial No. 09/430,501

Applicant: Hwang, et al.

Filing Date:
October 29, 1999

Group 2731

	270	Haas, L.C., et al., Abstract, Received Line Signal Quality Analysis, IBM Technical Disclosure Bulletin,
X1 60	ì	pp. 5414-5416; http://w3.infogate.ibm.com:1207/SESS506884/GETDOC/43/1/1 (May, 1981)
10.0	271	Nussbaumer, H., Abstract, Reducing the Acquisition Time in an Automatic Equalizer, IBM Technical
0	ļ	Disclosure Bulletin, pp. 1465-1479; http://w3.infogate.ibm.com:1207/SESS506884/GETDOC/40/2/1
\\ \tag{2}		(October 1975)
CA	272	Dialog Abstract, Listener echo canceller for digital communication system, PCT No. WO 9310607
14	273	Dialog Abstract, Reduced time remote access method for modem computer, PCT No. WO 9209165